

Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

Read more about Early Journal Content at http://about.jstor.org/participate-jstor/individuals/early-journal-content.

JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact support@jstor.org.

PASCAL'S ARITHMETICAL TRIANGLE.

By GEORGE LILLEY, Ph. D., LL.D. Ex-President of Washington State Agricultural College and School of Science, Portland, Oregon.

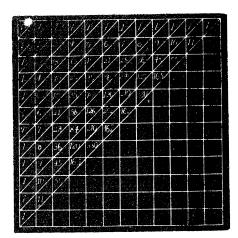
I do not remember of having ever seen an account of this interesting

device in any of our American text books, and, so far as I am able to ascertain, it has not been published in this country. The accompaning diagram explaines itself.

To find any number, in a triangle, take the sum of the number immediately above and the number immediately to the left of the required number, or take the sum of the numbers immediately above and to the left of the required number. Thus, the 7th number in the 4th row =28+56=84, or

$$28+21+15+10+6+3+1=84$$
.

The numbers on the diagonals are the coefficients of the expansion of a binomial.



The mth number in the nth row is given by the formula

$$\frac{|\underline{m+n-2}|}{|(\underline{m-1})|(\underline{n-1})} \cdot$$

Thus, the 7th number in the 5th row

$$=\frac{|7+-2|}{|(7-1)|(5-1)|} = \frac{|10|}{|6||4|} = \frac{1.2.3.4.5.6.7.8,9.10}{1.2.3.4.5.6.1.2.3.4} = 210., \text{ etc.}$$

LOGICAL DEDUCTIONS FROM THE HYPOTHESIS THAT THE ANGLE-SUM IS LESS THAN TWO RIGHT ANGLES.

By Professor JOHN N. LYLE, Ph. D., Professor of Natural Science, Westminster College, Fulton, Missouri.

Let ECF be any individual rectilineal triangle whatever whose angle sum is assumed to be less than two right angles.